

MAY 03 2004



TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	10/706,644
		Filing Date	November 12, 2003
		First Named Inventor	Shuibo Xie
		Art Unit	Unknown
		Examiner Name	Unknown
Total Number of Pages in This Submission	7	Attorney Docket Number	1856-36301 (9782.0-02)

ENCLOSURES (check all that apply)

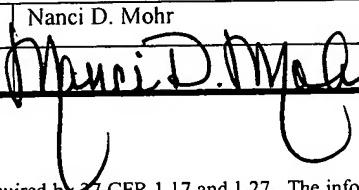
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Or Individual Name	Jeffrey L. Johnson, Reg. No. 53,078
Signature	
Date	April 30, 2004

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123055.01/1856.36301

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P. O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Shuibo Xie, et al. § Group Art Unit:
Serial No.: 10/706,644 § Examiner:
Filed: November 12, 2003 § Atty. Docket No.: 1856-36301
For: Novel Syngas Catalysts And § Client Ref. No.: 9782.0-02
Their Method Of Use §

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Atty. Dkt. No.: 1856-36301 (9782.0-02)
Date: April 30, 2004

Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

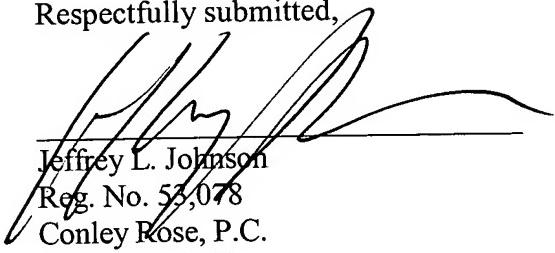
In accordance with 37 CFR §1.97, §1.98, applicant is providing herewith copies of the supplementary items listed on the attached U.S. Patent and Trademark Office Form PTO 1449. If this application was filed prior to June 30, 2003, a copy of each publication listed on Form PTO-1449 is enclosed herewith. This information is supplemental to the Information Disclosure Statement and Form PTO 1449 filed in the above-referenced case on April 20, 2004.

The submission of this Supplemental Information Disclosure Statement and Form PTO-1449 is not an admission that the art cited is "prior" with respect to the present invention, nor is it a representation that no better art exists. Applicants hereby reserve the right to swear behind or otherwise disprove any alleged "prior" nature of any art cited should the facts support and the situation warrant such an action.

It is submitted that the art cited does not constitute a bar to the patentability of Applicants' invention under 35 U.S.C. § 102 or § 103.

No Office Action on the merits has been received in the present application. Nonetheless, in the event that an Office Action dated prior to the mailing date of this Supplemental Information Disclosure Statement has been issued, please charge Deposit Account 03-2769, Conley Rose, P.C., in the amount of \$180, so that this Supplemental Information Disclosure Statement may be considered under Rule 1.97(c).

Respectfully submitted,

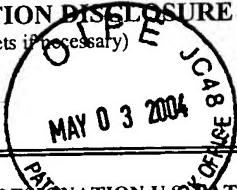


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ATTORNEY/AGENT FOR APPLICANT

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Atty. Docket No.
1856-36301
(9782.0-02)Serial No.
10/706,644Applicant
Shuibo Xie et al.Filing Date
November 12, 2003

Group

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
AA	3,752,775	08/14/1973	Yamaguchi et al.	252	464	
AB	4,537,873	08/27/1985	Kato et al.	502	242	
AC	4,585,752	04/29/1986	Ernest	502	314	
AD	4,738,946	04/19/1988	Yamashita et al.	502	303	
AE	4,793,797	12/27/1988	Kato et al.	143	7	
AC	4,961,786	10/09/1990	Novinson	106	692	
AG	5,837,634	11/17/1998	McLaughlin et al.	501	127	
AH	6,399,528	06/04/2002	Krell et al.	501	80	03/05/2001
AI	2003/0032554	02/13/2003	Park et al.	502	302	05/13/2002
AJ	4,151,123	04/24/1979	McCann, III	252	462	
AK	5,736,482	04/07/1998	Durand et al.	502	303	
AL	6,015,285	01/18/2000	McCarty et al.	431	7	
AM	6,455,597	09/24/2002	Hohn et al.	518	715	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	Translation YES NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



Substitute for form 1449B/PTO				Complete if Known	
				Application Number	10/706,644
				Filing Date	November 12, 2003
				First Named Inventor	Shuibo Xie et al.
				Group Art Unit	
				Examiner Name	
Sheet	2	of	4	Attorney Docket Number	1856-36301 (9782.0-02)

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.:	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate) title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issued number(s), publisher, city and/or country where published. *
	AN	Amato et al., <i>Sintering of Pelleted Catalysts for Automotive Emission Control</i> , pp. 187-197
	AO	Arai et al., <i>Recent Progress in High-Temperature Catalytic Combustion</i> , Catalysis Today, 10 (1991) pp. 81-94
	AP	Arai et al., <i>Thermal Stabilization of Catalyst Supports and their Application to High-Temperature Catalytic Combustion</i> , Applied Catalysis A: General 138 (1996) pp. 161-176
	AQ	Artizzu-Duart et al, <i>Catalytic Combustion of Methane on Substituted Barium Hexaaluminates</i> , Catalysis Today 59 (2000) pp. 163-177
	AR	Beguin et al., <i>Stabilization of Alumina by Addition of Lanthanum</i> , Applied Catalysis 75 (1991) pp. 119-132
	AS	Bish et al., <i>Quantitative Phase Analysis Using the Rietveld Method</i> , J. Appl. Cryst. (1998) 21, pp. 86-91
	AT	Cai et al., <i>Atomic Scale Mechanism of the Transformation of γ-Alumina to α-Alumina</i> , Physical Review Letters, Vol. 89, No. 23, (12/02/2002) pp. 235501-1 – 235501-4
	AU	Chen et al., <i>High Temperature Thermal Stabilization of Alumina Modified by Lanthanum Species</i> , Applied Catalysis A: General 205 (2001) pp. 159-172
	AV	Dexpert-Ghys, <i>Optical and Structural Investigation of the Lanthanum β-Alumina Phase Doped with Europium</i> , Journal of Solid State Chemistry 19, (1976) pp. 193-204
	AW	Farrington et al., <i>The Lanthanide β'' Alumina</i> , Applied Physics A 32 (1983) pp. 159-161
	AX	Groppi et al., <i>Preparation and Characterization of Hexaaluminate-Based Materials for Catalytic Combustion</i> , Applied Catalysis A: General, 104 (1993) pp. 101-108
	AY	Jang et al., <i>Catalytic Oxidation of Methane Over Hexaaluminates and Hexaaluminate-Supported Pd Catalysts</i> , Catalysis Today 47 (1999) pp. 103-113
	AZ	Johansson et al., <i>Development of Hexaaluminate Catalysts for Combustion of Gasified Biomass in Gas Turbines</i> , Journal of Engineering for Gas Turbines and Power, Vol. 124 (04/2002) pp. 235-238
	BA	Kato et al., <i>Preparation of Lanthanum β-Alumina with High Surface Area by Coprecipitation</i> , Journal of the American Ceramic Society, 70 [7] (07/1987) pp. C-157-159
	BB	Levy et al., <i>The Effect of Foreign Ions on the Stability of Activated Alumina</i> , Journal of Catalysis 9 (1967) pp. 76-86
Examiner Signature		Dated Considered



Substitute for form PTO-902				Complete if Known	
				Application Number	10/706,644
				Filing Date	November 12, 2003
				First Named Inventor	Shuibo Xie et al.
				Group Art Unit	
				Examiner Name	
Sheet	3	of	4	Attorney Docket Number	1856-36301 (9782.0-02)

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate) title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issued number(s), publisher, city and/or country where published.	
	BC	Liu et al., <i>Partial Oxidation of Methane over Nickel Catalysts Supported on Various Aluminas</i> , Korean Journal of Chemical Engineering 19 (5) pp. 735-741 (2002)	
	BD	Liu et al., <i>Partial Oxidation of Methane over Ni/Ce-ZrO₂/0-Al₂O₃</i> , Korean Journal of Chemical Engineering 19(5) pp. 742-748 (2002)	
	BE	Machida et al., <i>Effect of Additives on the Surface Area of Oxide Supports for Catalytic Combustion</i> , Journal of Catalysts 103 (1987) pp. 385-393	
	BF	Machida et al., <i>Analytical Electron Microscope Analysis of the Formation of BaO - 6Al₂O₃</i> , Journal of American Ceramic Society 71[12] pp. 1142-47 (1988)	
	BG	Machida et al., <i>Effect of Structural Modification on the Catalytic Property of Mn-Substituted Hexaaluminates</i> , Journal of Catalysis 123 (1990) pp. 477-785	
	BH	Matsuda et al., <i>8th International Congress on Catalysis Volume IV: Impact of Surface Science on Catalysis Structure-Selectivity/Activity Correlations New Routes for Catalyst Synthesis</i> (pp. IV-879-889)	
	BI	Miao et al., <i>Partial Oxidation of Methane to Syngas over Nickel-Based Catalysts Modified by Alkali Metal Oxide and Rare Earth Metal Oxide</i> , Applied Catalysts A: General 154 (1997) pp. 17-27	
	BJ	Nair et al., <i>Pore Structure Evolution of Lanthana-Alumina Systems Prepared through Coprecipitation</i> , Journal of American Ceramic Society 83[8] (2000) pp. 1942-1946	
	BK	Oudet et al., <i>Thermal Stabilization of Transition Alumina by Structural Coherence with LnAlO₃(Ln = La, Pr, Nd)</i> , Journal of Catalysis 114, (1998) pp. 112-120	
	BL	Rahkeev et al., <i>Transition Metal Atoms on Different Alumina Phases: The Role of Subsurfaces Sites on Catalytic Activity</i> , Physical Review B 67, 115414 (2003) pg. 4	
	BM	Rietveld, <i>A Profile Refinement Method for Nuclear and Magnetic Structures</i> , Journal of Appl. Cryst. (1969) 2, pp. 65-71	
	BN	Roh et al., <i>Partial Oxidation of Methane over Ni/0-Al₂O₃ Catalysts</i> , Chemistry Letters 2001 (pp. 666-667)	
	BO	Santos et al., <i>Standard Transition Aluminas, Electron Microscopy Studies</i> , Materials Research, Vol. 3 No. 4 (2000) pp. 104-114	
	BP	Schaper et al., <i>The Influence of Lanthanum Oxide on the Thermal Stability of Gamma Alumina Catalyst Supports</i> , Applied Catalysis 7 (1983) pp. 211-220	
	BQ	Schaper et al., <i>Thermal Stabilization of High Surface Area Alumina</i> , Solid State Ionics 16 (1985) pp. 261-266	
	BR	Seo et al., <i>Experimental and Numerical Studies on Combustion Characteristics of a Catalytically Stabilized Combustor</i> , Catalysis Today 59 (2000) pp. 75-86	
Examiner Signature		Dated Considered	



Substitute for form 1470/PTO
PATENT & TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	4	of	4	Attorney Docket Number	1856-36301 (9782.0-02)
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate) title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issued number(s), publisher, city and/or country where published.
	BS	Russell et al., <i>Thermal Transformations of Aluminas and Alumina Hydrates</i> , Industrial and Engineering Chemistry Vol. 42, No. 7 (1950) pp. 1398-1403
	BT	Subramanian et al., <i>Characterization of Lanthana/Alumina Composite Oxides</i> , Journal of Molecular Catalysts, 69 (1991) pp. 235-245
	BU	Taylor, <i>Computer Programs for Standardless Quantitative Analysis of Minerals Using the Full Powder Diffraction Profile</i> , Powder Diffraction, Vol. 6, No. 1 (1991) pp. 2-9
	BV	Tietz et al., <i>Investigations on Lanthanide-ion-exchanged β and β''-Alumina</i> , Journal of Alloys and Compounds, 192 (1993) pp. 78-80
	BW	Tijburg et al., <i>Application of Lanthanum to Psuedo-Boehmite and γ-Al_2O_3</i> , Chapman and Hall (1991) pp. 6479-6486
	BX	Weng et al., <i>Mechanistic Study of Partial Oxidation of Methane to Syngas Using In Situ Time-Resolved FTIR and Microprobe Raman Spectroscopies</i> , The Chemical Record Vol. 2, pp. 102-113 (2002)
	BY	Wu et al., <i>Coupled Thermodynamic-Phase Diagram Assessment of the Rare Earth Oxide-Aluminium Oxide Binary Systems</i> , Journal of Alloys and Compounds, 179 (1992) pp. 259-287
	BZ	Zhou et al., <i>Structures and Transformation Mechanisms of the n, y and O Transition Aluminas</i> , International Union of Crystallography (1991) pp. 617-630
Examiner Signature		Dated Considered